

Technical specification

Brazed Plate Heat Exchanger



Project ref: Östvala 125
 Line ref: Varmvatten
 Model: CB60AQ-26L
 Item Id: 3287195092
 No of units: 1

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		Hot side S4 -> T4	Cold Side T1 -> S1
Process data			
Capacity:	kW	65.0	
Fluid:		Water	Water
Duty type:		Liquid cooling	Liquid heating
Volume flow rate:	dm³/s	0,276	0,310
Inlet temperature:	°C	80,0	5,0
Outlet temperature:	°C	22,0	55,0
Tot pr drop calc (allowed)	kPa	10,9 (30,00)	12,9 (30,00)
Velocity connections:	m/s	0,66	0,45
Effective margin:	%	61	
Effective fouling resistance * 10000:	m²·K/W	1,7	
LMTD:	K	20,7	
Overall heat trans coef, service:	W/(m²·K)	2 251,1	

Heat exchanger specification			
Heat transfer area:	m²	1,4	
Relative directions of fluids:		Countercurrent	
Number of plates:		26	
Number of passes:		2	2
Channel arrangement:		2*6L	1*6L+1*7L
Channel volume:	dm³	1,2	1,3
Number of circuits:		1	1
Design pressure at -196 °C	bar	40	40
Design pressure at 225 °C	bar	32	32
Design temperature (min/max):	°C	-196 / 225	
Pressure vessel code:		PED	
Material Channel plates / Sealing:		ALLOY 316 / Cu	
Additional connections:		S2, S3	
Connection S4 (Hot-In):		Threaded (External) ISO 228/1-G 1" ALLOY 316	
Connection T4 (Hot-Out):		Threaded (External) ISO 228/1-G 1" ALLOY 316	
Connection T1 (Cold-In):		Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316	
Connection S1 (Cold-Out):		Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316	
Additional connection S2:		Threaded (External) / 1 1/4"ISO 228/1-GV24	
Additional connection S3:		Threaded (External) / 1"ISO 228/1-GV22	
Connection diameter In / Out:	mm	30,0 / 30,0	23,0 / 23,0
Unit dimensions (length x width x height):	mm	155 x 113 x 527	
Net weight, empty / operating:	kg	7,7 / 10,22	
Packed length x width x height:	mm	0 x 0 x 0	
Packed weight:	kg	7,7	

This Heat Exchanger is certified by the AHRI Liquid to Liquid Brazed & Fusion Bonded Plate Heat Exchangers (LLBF) Certification Program, based on AHRI Standard 400. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third-party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org



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Fluid properties		Hot side	Cold Side
Density (in/out):	kg/m ³	971,50/996,87	1 001,06/984,53
Specific heat capacity:	kJ/(kg·K)	4,19	4,19
Thermal conductivity:	W/(m·K)	0,638	0,613
Viscosity (in/out):	cP	0,3534/0,9601	1,5179/0,5031

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